

# Notice of Allowability

Application No.

10/802,775

Examiner

Nicholas T. La

Applicant(s)

NAGAI, HIROTO

Art Unit

2687

## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 01/18/2006.
2. ☒ The allowed claim(s) is/are 5-8, 14-17 and 19-32.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

## DETAILED ACTION

### *Allowable Subject Matter*

1. Claims 5-8, 14-17, 19-32 are allowed.
2. The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record fails to teach a method with a compatible apparatus mobile terminal necessary to implement the method, comprising:

a memory for storing history data of cells in which the mobile terminal has operated, including an indication of whether the mobile terminal entered the cell by powering on;

a processor for searching the stored history to locate cells, other than a cell in which the mobile terminal is presently operating, in which the mobile terminal operated in the past but in which the mobile terminal did not power on,

wherein when the processor detects in the stored history a cell in which the mobile terminal did not power on and which has the oldest history, the processor predicts that the mobile terminal will move into the detected cell.

Bahl et al. cited in the previous office action discloses a wireless network to predict both the immediate next cell to be entered by the mobile and the over all or global route of the mobile unit in the wireless cellular network. A prediction engine

tracks the path of the mobile and compares this with previous routes that the mobile has followed as recorded and stored in the memory. However, Bahl et al. fails to teach storing history data of cells with indication of the mobile terminal entered the cell by powering on as well as searching to locate cells in which the mobile terminal did not power on, and lastly detects in the stored history a cell in which the mobile terminal did not power on and which has the oldest history to be the next cell the mobile terminal will move into.

The prior art of record also fails to teach a method with a compatible apparatus mobile terminal necessary to implement the method, comprising:

- a memory for storing history data of cells in which the mobile terminal has operated, including an indication of whether the mobile terminal entered the cell by powering on;

- a processor for searching the stored history to locate cells, other than a cell in which the mobile terminal is presently operating, in which the mobile terminal operated in the past but in which the mobile terminal did not power on,

- wherein when the processor detects in the stored history a cell in which the mobile terminal did not power on and in which the mobile terminal operated the greatest number of time in the past, the processor predicts that the mobile terminal will move into the detected cell.

Bahl et al. cited in the previous office action discloses a wireless network to predict both the immediate next cell to be entered by the mobile and the over all or

Art Unit: 2687

global route of the mobile unit in the wireless cellular network. A prediction engine tracks the path of the mobile and compares this with previous routes that the mobile has followed as recorded and stored in the memory. However, Bahl et al. fails to teach storing history data of cells with indication of the mobile terminal entered the cell by powering on as well as searching to locate cells in which the mobile terminal did not power on, and lastly detects in the stored history a cell in which the mobile terminal did not power on and in which the mobile terminal operated the greatest number of time in the past to be the next cell the mobile terminal will move into.

Therefore, claims 5-8, 14-17, 19-32 are allowed.

### **Conclusion**

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nicholas T. La whose telephone number is (571)-272-8075. The examiner can normally be reached on Mon-Fri 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lester Kincaid can be reached on (571)-272-7922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

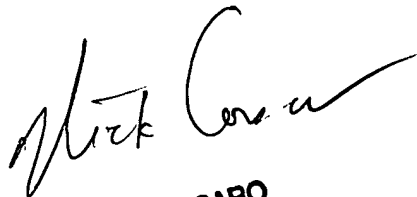
Art Unit: 2687

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read "Nicholas La", with a stylized flourish at the end.

Nicholas La

03/02/2006

A handwritten signature in black ink, appearing to read "Nick Corsaro", with a stylized flourish at the end.

NICK CORSARO  
PRIMARY EXAMINER